

**WEST Search History**

updated  
Search  
4/29/04  
son

DATE: Thursday, April 29, 2004

Hide?	Set Name	Query	Hit Count
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=AND</i>			
<input type="checkbox"/>	L1	sap.ti,ab,clm.	2586
<input type="checkbox"/>	L2	L1 and (campylobacter or fetus)	1
<input type="checkbox"/>	L3	sapa or sap-a or (surface near associated)	28329
<input type="checkbox"/>	L4	L3 same (campylobacter or fetus)	19
<input type="checkbox"/>	L5	L3 and campylobact\$	108
<input type="checkbox"/>	L6	L5 and (blaser or thompson or dworkin).in.	1
<input type="checkbox"/>	L7	(blaser or thompson or dworkin).in.	30810
<input type="checkbox"/>	L8	L7 and campylobacter.clm.	3
<input type="checkbox"/>	L9	L7 and recombinant\$.clm.	67
<input type="checkbox"/>	L10	L7 and vector.clm.	128
<input type="checkbox"/>	L11	L10 and l9	28

END OF SEARCH HISTORY

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**

☐ 1. [5470958](#). 16 Sep 94; 28 Nov 95. Antisera against a PEB1 antigen from *Campylobacter jejuni*. [Blaser](#); [Martin J.](#), et al. 530/389.5; 424/164.1 435/252.1 435/7.32 435/822. A61K035/16 A61K039/106.

☐ 2. [5459041](#). 18 Feb 88; 17 Oct 95. *Campylobacter pylori* antigens and uses thereof for detection of *Campylobacter pylori* infection. [Blaser](#); [Martin J.](#), et al. 435/7.21; 435/7.3 435/7.92 435/7.93 435/7.94 435/7.95 435/961 435/974 435/975 436/518 436/527 436/528 436/529 436/531 436/533 436/547 436/804 530/350 530/413 530/806 530/810 530/825. G01N033/53.

☐ 3. [5200344](#). 13 Nov 90; 06 Apr 93. Diagnostic testing for *Campylobacter jejuni* or *Campylobacter coli* infections using novel antigens. [Blaser](#); [Martin J.](#), et al. 435/7.32; 435/29 435/7.92 435/961 435/967 436/547 530/389.5. G01N033/569.

[Generate Collection](#)[Print](#)

Terms	Documents
<a href="#">L7 and campylobacter.clm.</a>	3

[Prev Page](#)[Next Page](#)[Go to Doc#](#)

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 28 of 28 returned.**

- 
- ☐ 1. [20040072188](#). 28 Jul 03. 15 Apr 04. Novel receptor nucleic acids and polypeptides. Ambrose, Christine M., et al. 435/6; 435/320.1 435/325 435/69.1 514/12 514/44 530/350 530/388.22 536/23.5 C12Q001/68 C07H021/04 C12P021/02 C12N005/06 C07K014/715 C07K016/28.
- 
- ☐ 2. [20040018173](#). 07 Apr 03. 29 Jan 04. Composition and method for the treatment and prevention of metastatic disorders. [Thompson](#), Timothy C., et al. 424/93.2; 424/94.4 435/320.1 435/325 435/456 536/23.2 A61K048/00 C07H021/04 A61K038/44 C12N015/86.
- 
- ☐ 3. [20040009508](#). 17 Apr 03. 15 Jan 04. RTVP based compositions and methods for the treatment of prostate cancer. [Thompson](#), Timothy C., et al. 435/6; 435/226 435/320.1 435/354 435/69.1 536/23.2 800/18 C12Q001/68 A01K067/027 C07H021/04 C12N009/64 C12P021/02 C12N005/06.
- 
- ☐ 4. [20040003427](#). 23 Apr 03. 01 Jan 04. Novel basal endosperm transfer cell layer (BELT) specific genes. [Thompson](#), Richard D., et al. 800/278; 435/320.1 435/419 435/69.1 530/370 536/23.6 A01H001/00 C12N015/82 C07H021/04 C07K014/415 C12P021/02 C12N005/04.
- 
- ☐ 5. [20020151509](#). 22 May 00. 17 Oct 02. Adeno-associated viral vector-mediated delivery of DNA to cells of the liver. Snyder, Richard O., et al. 514/44; 424/93.2 435/320.1 435/455 435/456 435/457 A61K048/00 C12N015/861.
- 
- ☐ 6. [20020137182](#). 12 Sep 01. 26 Sep 02. Vertebrate apoptosis gene: compositions and methods. [Thompson](#), Craig B., et al. 435/226; 435/184 435/320.1 435/325 435/69.1 536/23.2 C12N009/99 C12N009/64 C07H021/04 C12P021/02 C12N005/06.
- 
- ☐ 7. [20020052025](#). 08 Jun 01. 02 May 02. RTVP based compositions and methods for the treatment of prostate cancer. [Thompson](#), Timothy C., et al. 435/69.3; 435/184 435/320.1 435/325 536/23.2 C12N009/99 C07H021/04 C12P021/02 C12N005/06.
- 
- ☐ 8. [6545139](#). 12 Mar 99; 08 Apr 03. DNA sequence encoding the p99 gene and kits for the detection of neoplasia. [Thompson](#); Timothy C., et al. 536/23.5; 435/320.1 536/23.1 536/23.51 536/23.53. C07H021/04 C07H021/02 C12H021/00 C12H015/09 C12H015/63.
- 
- ☐ 9. [6221660](#). 13 Aug 99; 24 Apr 01. DNA encoding SNORF25 receptor. Bonini; James A., et al. 435/348; 435/357 435/361 435/365 435/369 530/350 536/23.5. C12N005/18 C12N005/22.
- 
- ☐ 10. [6143866](#). 19 Jan 95; 07 Nov 00. Tumor necrosis factor (TNF) inhibitor and method for obtaining the same. Brewer; Michael T., et al. 530/350; 424/85.1 435/252.3 435/320.1 435/69.1 435/69.5 530/351 530/388.22 530/395 530/402 536/23.5 930/140. C07K014/705 C12N001/00.
- 
- ☐ 11. [6132990](#). 07 Jun 91; 17 Oct 00. Recombinant methods for production of serine protease inhibitors and DNA sequences useful for same. Bandyopadhyay; Pradip K., et al. 435/69.2; 435/252.3 435/252.31 435/320.1 435/69.7 435/69.9 514/12 530/324 536/23.4 536/23.5. A61K037/64 C12N015/11 C12N015/15 C12N015/79.
- 
- ☐ 12. [6100448](#). 08 Jan 99; 08 Aug 00. Increasing expression of transgenes in plant cells using

insulator elements. Thompson; William, et al. 800/278; 435/320.1 435/419 435/468 536/23.6 536/23.7 536/24.1 800/295 800/298. C12N015/00 C12N015/29 C12N015/82 A01H003/00.

---

☐ 13. 6037525. 01 Aug 96; 14 Mar 00. Method for reducing expression variability of transgenes in plant cells. Thompson; William, et al. 800/298; 435/320.1 435/419 536/23.6 536/24.1 800/295 800/312 800/314 800/317.3. C12N015/00 C12N015/29 C12N015/82 A01H005/00.

---

☐ 14. 5922561. 03 Oct 94; 13 Jul 99. Genes encoding signal recognition particle of *Aspergillus niger*. Thompson; Sheryl Ann, et al. 435/69.1; 435/243 435/254.11 435/254.3 435/320.1 435/325 435/410 536/23.74. C12P021/02 C12N001/00 C12N001/15 C12N005/10.

---

☐ 15. 5874300. 13 Mar 95; 23 Feb 99. *Campylobacter jejuni* antigens and methods for their production and use. Blaser; Martin J., et al. 435/325; 435/252.3 435/252.31 435/252.33 435/254.2 435/254.21 435/320.1 435/348 435/362 435/365 435/367 435/69.3 536/23.7. C12N015/31 C12N015/63 C12N015/70 C12N015/79.

---

☐ 16. 5874288. 31 Jul 97; 23 Feb 99. *Bacillus thuringiensis* toxins with improved activity. Thompson; Mark, et al. 435/252.3; 424/93.2 435/252.33 435/252.34 435/320.1 435/419 536/23.1 536/23.71 800/302. C12N015/32 C12N001/21 C12N015/63 C12N005/10.

---

☐ 17. 5834309. 06 Jun 95; 10 Nov 98. Vertebrate apoptosis gene: compositions and methods. Thompson; Craig B., et al. 435/325; 435/243 435/320.1 435/410 536/23.1 536/23.4 536/24.1. C07H021/02 C07H021/04 C12N005/10 C12N015/12.

---

☐ 18. 5773695. 26 Jan 96; 30 Jun 98. Plant nuclear scaffold attachment region and method for increasing gene expression in transgenic cells. Thompson; William F., et al. 800/293; 435/320.1 435/414 435/419 536/23.1 536/24.1 800/298 800/312 800/314 800/317.2 800/317.3. A01H001/04.

---

☐ 19. 5773689. 19 Apr 95; 30 Jun 98. Method of increasing expression of foreign genes in plant cells. Thompson; William F., et al. 800/293; 435/320.1 435/419 435/470 536/24.1 800/279 800/280 800/298 800/301 800/302 800/312 800/314 800/317.2 800/317.3. C12N005/00 C12N015/00 A01H001/04.

---

☐ 20. 5770371. 27 Jun 96; 23 Jun 98. Modification of cryptic splice sites in heterologous genes expressed in fungi. Thompson; Sheryl. 435/6; 435/254.11 435/320.1 435/69.1 435/91.4 536/23.1. C12Q001/68 C12P019/34 C12N001/15 C07H021/04.

---

☐ 21. 5750388. 15 Nov 96; 12 May 98. Purified scytalidium laccases and nucleic acids encoding same. Berka; Randy Michael, et al. 435/189; 435/252.3 435/252.33 435/254.1 435/254.3 435/320.1 536/23.1 536/23.2. C12N009/02.

---

☐ 22. 5646008. 22 Jun 93; 08 Jul 97. Vertebrate apoptosis gene: compositions and methods. Thompson; Craig B., et al. 435/69.1; 435/253.3 435/320.1 435/325 435/350 435/354 435/356 435/358 435/364 435/365 435/366 435/367 435/369 536/23.5 536/24.31 536/24.33. C12N005/10 C12N005/12.

---

☐ 23. 5593881. 06 May 94; 14 Jan 97. *Bacillus thuringiensis* delta-endotoxin. Thompson; Mark, et al. 435/418; 435/252.3 435/320.1 536/23.71. C12N005/10 C12N015/63 C07H021/04.

---

☐ 24. 5468624. 02 Jul 93; 21 Nov 95. Cell lysis activity of a modified fragment of the glucocorticoid receptor. Thompson; E. Brad, et al. 435/69.1; 435/252.3 435/320.1 435/372.3 435/69.4 536/23.5. C12N015/16.

☐ 25. 5424192. 29 Mar 93; 13 Jun 95. Markers for invasive prostatic neoplasia. Thompson; Timothy C., et al. 435/7.23; 435/7.9 435/7.92 436/512 436/518 436/63 436/64 436/813. G01N033/574 G01N033/53.

☐ 26. 5171671. 06 Aug 90; 15 Dec 92. Retinoic acid receptor composition. Evans; Ronald M., et al. 435/69.1; 435/252.3 435/320.1 435/69.7 530/350. C12N015/12 C12N015/62 C12N015/63 C07K013/00.

☐ 27. 5135867. 16 Nov 90; 04 Aug 92. Gene encoding a lepidopteran-active toxin from Bacillus thuringiensis isolate denoted B.t. .PS81GG active against lepidopteran pests. Payne; Jewel, et al. 435/252.33; 435/252.3 435/252.34 435/320.1 435/69.1 536/23.6. C12N001/21 C12N015/32 C12N015/70.

☐ 28. 5075222. 06 Apr 90; 24 Dec 91. Interleukin-1 inhibitors. Hannum; Charles H., et al. 435/69.1; 435/235.1 435/252.3 435/252.33 435/320.1 435/360 435/455 435/461 435/485 435/488 435/91.41 530/350 536/23.51. C12P021/02 C12P019/34 C12N015/00 C12N007/00 C12N005/00 C12N001/21 C12N015/70 C12N015/79 C12N015/81 C12N001/16 C07H015/12 C07K003/00.

Generate Collection

Print

Terms	Documents
L10 and L9	28

[Prev Page](#)   [Next Page](#)   [Go to Doc#](#)

First Hit   Fwd Refs

L8: Entry 1 of 3

File: USPT

Nov 28, 1995

US-PAT-NO: 5470958

DOCUMENT-IDENTIFIER: US 5470958 A

TITLE: Antisera against a PEB1 antigen from Campylobacter jejuni

DATE-ISSUED: November 28, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Blaser</u> ; Martin J.	Nashville	TN		
Ellison, III; Richard T.	Denver	CO		
Pei; Zhi H.	Nashville	TN		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Enteric Research Laboratories Inc.	Nashville	TN			02

APPL-NO: 08/ 307480   [PALM]

DATE FILED: September 16, 1994

## PARENT-CASE:

This is a continuation of application Ser. No. 07/986,928 filed on Dec. 8, 1992, now abandoned, which is a division of application Ser. No. 07/612,330, filed Nov. 13, 1990, now U.S. Pat. No. 5,200,344.

INT-CL: [06] A61 K 35/16, A61 K 39/106

US-CL-ISSUED: 530/389.5; 424/164.1, 435/252.1, 435/7.32, 435/822

US-CL-CURRENT: 530/389.5; 424/164.1, 435/252.1, 435/7.32, 435/822

FIELD-OF-SEARCH: 424/164.1, 435/252.1, 435/7.32, 435/822, 530/389.5

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4404194</u>	September 1983	Arala-Chaves	514/2
<input type="checkbox"/> <u>4683195</u>	July 1987	Mullis et al.	435/6
<input type="checkbox"/> <u>4704362</u>	November 1987	Itakura et al.	435/252.3
<input type="checkbox"/> <u>4785086</u>	November 1988	Rashtchian et al.	536/24.32

<input type="checkbox"/>	<u>4800159</u>	January 1989	Mullis et al.	435/91.2
<input type="checkbox"/>	<u>4879213</u>	November 1989	Fox et al.	435/5
<input type="checkbox"/>	<u>4882271</u>	November 1989	Evans et al.	435/7.32
<input type="checkbox"/>	<u>4965188</u>	October 1990	Mullis et al.	435/6
<input type="checkbox"/>	<u>5200344</u>	April 1983	Blaser et al.	435/7.32

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
90/14837	December 1990	WO	
92/08485	May 1992	WO	

## OTHER PUBLICATIONS

Blaser et al, Human Serum Antibody Response to *Campylobacter jejuni* Infection as Measured in an Enzyme-Linked Immunosorbent Assay, *Infection and Immunity* 44(2):292-298, 1984.

Ramaniuk, et al., *FEMS Microbiology Letters* 43:331-335 (1987).

Fauchere, et al., *Res. Microbiol.* 140:379-382 (1989).

Lee, et al., *Science* 239:1288-1291 (1988).

Bowie, et al., *Science* 247:1306-1310 (1990).

Kumar, et al., *PNAS* 87:1337-1341 (1990).

Young, *PNAS* 80:1194-1198 (1983).

Pennock, et al., *Mol. Cell. Bio.* 4(3):399-406 (1984).

Blaser, et al., *Infection and Immunity* (1983) 42(1) pp. 276-284.

Blaser, et al., *Infection and Immunity* (1986) 53(1) pp. 47-52.

Meinersmann, et al., *Current Microbiology* (1990) 21(1) pp. 17-21.

De Melo, et al., *Infection and Immunity* (1990) 58(6) pp. 1749-1756.

Pei, et al., *J. Bio. Chem.* (1991) 266(25) pp. 16363-16369.

Black, et al., *Dev. Biol. Stand* (1983) 53:9-14.

Brake, et al., *Proc. Nat'l Acad. Sci.* 81(15):4642-6 1984.

Tizard, *An Introduction to Veterinary Immunology*, pp. 178-182 (1982).

Ferrero, et al., *J. Bacteriol.* 174:4212 (1992).

Kervella, et al., *Infection and Immunity* 61(8):3440-3448 (1993).

Blaser, et al., *N. Eng. J. Med.* (1981) 305:1444-1452.

Blaser, et al., *Ann. Intern. Med.* (1983) 98:360-365.

Glass, et al., *J. Infect. Dis.* (1983) 148:292-296.

Blaser, et al., *Epidemiologic Reviews* (1983) 5:157-176.

Blaser, et al., *Infect. Immun.* (1984) 44:292-298.

Black, et al., *J. Infect. Dis.* (1988) 157:472-479.

Perlman, et al., "Humoral Immune Response to *Campylobacter jejuni* in Human Volunteers" *Abst./87th Ann. Meet. Amer. Soc. for Microbio.* (Mar. 1987).

Perlman, et al., "Immunity to *Campylobacter jejuni* Following Oral Challenge to Volunteers" *Abst./4th Int'l Wkshp on Campylobacter Infec.* (Jun. 1987).

Blaser, et al., *JAMA* (1987) 257:43-46.

Pei, et al., *J. Biol. Chem.* (1988) 263:6416-6420.

Miotti, *Eur. J. Epidemiol.* (1987) 3:356-364.

Blaser, et al., *Infection and Immunity* (1984) vol. 43, No. 3, pp. 986-993.

Dunn, et al., *Infection and Immunity*, vol. 55, No. 7, pp. 1564-1572 (Jul. 1987).

Ames; G. F. L., *J. Biol. Chem.* (1974) 249:634-644.

Oakley, et al., *Anal. Biochem.* (1980) 105:361-363.

Pei, et al., *J. Clin. Invest.* (1990) 85:1036-1043.

Markwell, et al., *Anal. Biochem.* (1978) 87:206-210.

Willoughby, et al., *Anal. Biochem.* (1983) 130:353-358.

Jones, B. N., J. Liq. Chromatogr. (1981) 4:565-568.  
Towbin, et al., Proc. Nat'l. Acad. Sci. (1979) 76:4350-54.  
Burnette, et al., Biochem. (1981) 112:195-203.  
Eldridge, et al., Curr. Top. Microbiol. Immunol. (1989) 146:59.  
Klugman, et al., The Lancet, Nov. 21, 1987, pp. 1165-1169.  
Dubreuil, et al., J. Clin. Microbiol. (1990) 28(6):1321-1328.  
Arnon, Synthetic Vaccines I:L 83-92, CRC Press, Inc.  
Birnboim and Doly, Nucleic Acids. Res., 7:1513-1523 (1979).  
Carbonell, et al., J. Virol., 56:153 (1985).  
Feinberg and Bogelstein, Anal. Biochem., 132:6-13 (1983).  
Fraser, et al., In vitro Cell. Dev. Biol., 25:225 (1989).  
Kunkel, et al., Methods Enzymol., 154:367 (1987).  
Labigne-Roussel, et al., J. Bacteriol., 170:1704 (1988).  
Harlow & Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Lab. (1988).  
Sambrook, et al., Molecular Cloning: A Lab Manual (1989) (Table of Contents enclosed).  
Sanger, et al., Proc. Natl. Acad. Sci. U.S.A., 71:5463-5467 (1977).  
Smith, et al., Mol. Cell. Biol., 3:2156 (1983).  
Summers & Smith, Texas Agri. Exp. Bull. No. 1555 (1987) ( Table of Contents enclosed).  
Wright, Nature, 321:718 (1986).

ART-UNIT: 183

PRIMARY-EXAMINER: Sidberry; Hazel F.

ASSISTANT-EXAMINER: Krsek-Staples; Julie

ATTY-AGENT-FIRM: Ostrolenk, Faber, Gerb & Soffen

ABSTRACT:

An antigenic composition includes antigens obtainable from Campylobacter jejuni and may be used as a vaccine to induce protective antibodies against both Campylobacter coli and Campylobacter jejuni. The antigenic composition, and antisera specific to the antigens can be used to detect Campylobacter coli or Campylobacter jejuni infection. Diagnostic detection kits include the novel antigenic composition or antisera thereto.

1 Claims, 7 Drawing figures



First Hit   Fwd Refs

L11: Entry 15 of 28

File: USPT

Feb 23, 1999

US-PAT-NO: 5874300

DOCUMENT-IDENTIFIER: US 5874300 A

TITLE: Campylobacter jejuni antigens and methods for their production and use

DATE-ISSUED: February 23, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blaser; Martin J.	Nashville	TN		
Pei; Zhiheng	Nashville	TN		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Enteric Research Laboratories					02

APPL-NO: 08/ 402804   [PALM]

DATE FILED: March 13, 1995

## PARENT-CASE:

RELATED APPLICATION This application is a Continuation of U.S. patent application Ser. No. 08/114,420, filed Aug. 30, 1993, now abandoned, which is in turn a Continuation-in-part of U.S. patent application Ser. No. 08/112,387, filed Aug. 27, 1993, now abandoned.

INT-CL: [06] C12 N 15/31, C12 N 15/63, C12 N 15/70, C12 N 15/79

US-CL-ISSUED: 435/325; 435/348, 435/362, 435/365, 435/367, 435/252.3, 435/252.33, 435/252.31, 435/254.2, 435/254.21, 435/320.1, 435/69.3, 536/23.7

US-CL-CURRENT: 435/325; 435/252.3, 435/252.31, 435/252.33, 435/254.2, 435/254.21, 435/320.1, 435/348, 435/362, 435/365, 435/367, 435/69.3, 536/23.7

FIELD-OF-SEARCH: 435/69.3, 435/252.3, 435/320.1, 435/348, 435/362, 435/365, 435/325, 435/367, 435/250.33, 435/252.31, 435/254.2, 435/254.21, 435/62.3, 536/23.7

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	4404194	September 1983	Arala-Chaves	
<input type="checkbox"/>	4683195	July 1987	Mullis et al.	
<input type="checkbox"/>	4704362	November 1987	Itakura et al.	

<input type="checkbox"/>	<u>4785086</u>	November 1988	Rashtchian et al.
<input type="checkbox"/>	<u>4800159</u>	January 1989	Mullis et al.
<input type="checkbox"/>	<u>4879213</u>	November 1989	Fox et al.
<input type="checkbox"/>	<u>4882271</u>	November 1989	Evans et al.
<input type="checkbox"/>	<u>4965188</u>	October 1990	Mullis et al.
<input type="checkbox"/>	<u>5200344</u>	April 1993	Blaser et al.
<input type="checkbox"/>	<u>5459041</u>	October 1995	Blaser

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
90/14837	December 1990	WO	
92/08485	May 1992	WO	

## OTHER PUBLICATIONS

Blaser, et al., N. Eng. J. Med. (1981) 305:1444-1452.  
 Blaser, et al., Ann. Intern. Med. (1983) 98:360-365.  
 Glass, et al., J. Infect. Dis. (1983) 148:292-296.  
 Blaser, et al., Epidemiologic Reviews (1983) 5:157-176.  
 Blaser, et al., Infect. Immun. (1984) 44:292-298.  
 Black, et al., J. Infect. Dis. (1988) 157:472-479.  
 Perlman, et al., "Humoral Immune Response to Campylobacter Jejuni in Human Volunteers" Abst./87th Ann. Meet. Amer. Soc. for Microbio. (Mar. 1987).  
 Perlman, et al., "Immunity to Campylobacter Jejuni Following Oral Challenge to Volunteers" Abst./4th Int'l Wkshp on Campylobacter Infec. (Jun. 1987).  
 Blaser, et al., JAMA (1987) 257:43-46.  
 Pei, et al., J. Biol. Chem. (1988) 263:6416-6420.  
 Miotti, Eur. J. Epidemiol. (1987) 3:356-364.  
 Blaser, et al., Infection and Immunity (1984) vol. 43, No. 3, pp. 986-993.  
 Dunn, et al., Infection and Immunity, vol. 55, No. 7, pp. 1564-1572 (Jul. 1987).  
 Ames GFL, J. Biol. Chem. (1974) 249:634-644.  
 Oakley, et al., Anal. Biochem. (1980) 105:361-363.  
 Pei, et al., J. Clin. Invest. (1990) 85:1036-1043.  
 Markwell, et al., Anal. Biochem. (1978) 87:206-210.  
 Willoughby, et al., Anal. Biochem. (1983) 130:353-358.  
 Towbin, et al., Proc. Nat'l. Acad. Sci. (1979) 76:4350-54.  
 Jones BN, J. Liq. Chromatogr. (1981) 4:565-568.  
 Burnette, et al., Biochem. (1981) 112:195-203.  
 Black, et al., Dev. Biol. Stand (1983) 53:9-14 (Abstract Only).  
 Eldridge, et al., Curr. Top. Microbiol. Immunol. (1989) 146:59.  
 Klugman, et al., The Lancet, Nov. 21, 1987, pp. 1165-1169.  
 Dubreuil, et al., J. Clin. Microbiol. (1990) 28(6):1321-1328.  
 Arnon, Synthetic Vaccines I:L 83-92, CRC Press, Inc.  
 Birnboim and Doly, Nucleic Acids. Res., 7:1513-1523 (1979).  
 Carbonell, et al., J. Virol., 56:153 (1985).  
 Feinberg and Bogelstein, Anal. Biochem., 132:6-13 (1983).  
 Fraser, et al., In vitro Cell. Dev. Biol., 25:225 (1989).  
 Kunkel, et al., Methods Enzymol., 154:367 (1987).  
 Labigne-Roussel, et al., J. Bacteriol., 170:1704 (1988).  
 Harlow & Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Lab. (1988) (Table of Contents only).  
 Sambrook, et al., Molecular Cloning: A Lab Manual (1989) (Table of Contents only).

Sanger, et al., Proc. Natl. Acad. Sci. U.S.A., 71:1342-1346.32 (1977).  
Smith, et al., Mol. Cell. Biol., 3:2156 (1983).  
Summers & Smith, Texas Agri. Exp. Bull. No. 1555 (1987) (Table of Contents only).  
Wright, Nature, 321:718 (1986).  
Pei, et al., J. Biol. Chem., 266:16363-16369 (1991).  
Ferrero, et al., J. Bacteriol., 174:4212 (1992).  
Kervella, et al., Infection and Immunity, vol. 61 8:3440-3448 (1993).  
P.J. Ramaniuk et al. FEMS Microbiology Letters 43:331-335 1987.  
J.L. Fauchere et al. Res. Microbiol. 140:379-392 Oct. 1989.  
C.C. Lee et al. Science 238:1288-1291 Mar. 1988.  
J.U. Bowie et al. Science 247:1306-1310 Mar. 1990.  
V. Kumar et al. PNAS 87:1337-1341 Feb. 1990.  
R.A. Young PNAS 80:1194-1198 Mar. 1983.  
G.D. Pennock et al. Mol. Cell. Biology 4(3):399-406 Mar. 1984.  
Blaser, et al., Infection and Immunity (1983) 42(1) pp. 276-284.  
Blaser, et al., Infection and Immunity (1986) 53(1) pp. 47-52.  
Meinersmann, et al., Current Microbiology (1990) 21(1) pp. 17-21.  
De Melo, et al., Infection and Immunity (1990) 58(6) pp. 1749-1756.

ART-UNIT: 187

PRIMARY-EXAMINER: Caputa; Anthony C.

ATTY-AGENT-FIRM: Ostrolenk, Faber, Gerb & Soffen, LLP

ABSTRACT:

The present invention provides an isolated nucleic acid encoding an approximately 26 kilodalton antigen, PEB1A, of *Campylobacter jejuni*, or an antigenic fragment thereof, wherein the antigen is associated with diarrheal disease. The present invention also provides methods of detecting the presence of a *Campylobacter jejuni* strain possessing the PEB1A antigen in a subject. Vaccines and treatments for *C. jejuni* infection are provided, as is a mutant *C. jejuni* not expressing a functional PEB1A antigen.

18 Claims, 8 Drawing figures